Resource Goals - Cultural Resources

Code Number	Issue Statement Title	Goal Number	Goal
C01	Determine the nature, distribution and value of cultural resources (including archaeological sites, historic resources, and traditional use areas) within the Area of Potential Effects. Issues addressed include numbers 2, 3, 8, 10-13, 15, 18, 21, 24, 25, 28, 29, 31-35, 37, 39-42, 45, 51, 53, 55, 57, 58, 59.		
	Cultural Resources Inventory	C01.01	Compile data of sufficient quantity and quality to determine the nature, distribution and value of cultural resources as required by existing Historic Preservation laws and FERC mandates.
		C01.02	Locate and evaluate archaeological sites, historic resources (including mining and ranching sites), and traditional use areas (including trails, new and traditional hunting, fishing and gathering sites) within the APE.
		C01.03	Develop inventory and evaluation policies that minimize impacts to cultural resources (e.g., evaluation of artifacts "in-place").
		C01.04	Provide documentation on past and future cultural resource studies. Complete prior studies, where appropriate.
		C01.05	Encourage and facilitate the positive involvement of all Native American groups (not just federally recognized tribes) and other interested individuals and organizations in the cultural resources program. Take efforts to obtain data from cultural resource elders
		C01.06	Provide paleoenvironmental and cultural historical context for cultural resource studies
C02	Evaluate the need and methods to provide protection of cultural resources (including archaeological sites, historic resources, and traditional use areas) within the Area of Potential Effects. Issues addressed include numbers 1-3, 5, 6, 8, 9, 11, 15, 17, 18, 21, 22, 24-26, 28, 29, 33, 35-38, 41, 42, 45, 46, 50, 52, 53, 54.		
	Cultural Resources Evaluation	C02.01	Evaluate the need (i.e., project effect, significance of resource) and methods to provide protection of cultural resources.
		C02.02	Emphasize the protection of all significant cultural resource values within the APE (including those that lie beneath the reservoir).
		C02.03	Develop special protective measures for "high-risk" situations (e.g., sites exposed to potential damage during reservoir drawdowns or through recreational activities).
		C02.04	Establish areas to be managed primarily for historical preservation purposes (e.g., historical areas, traditional use areas, repatriation locations).
		C02.05	Encourage and facilitate the positive involvement of all Native American groups (not just federally recognized tribes) and other interested individuals and organizations in the cultural resources program. Take efforts to obtain data from and encourage involvement of cultural resource elders.
		C02.06	Incorporate public education in any protection program.

Code Number	Issue Statement Title	Goal Number	Goal
	Cultural Resources Evaluation	C02.07	Prioritize the protection of cultural sites in a realistic manner.
C03	Determine the effects of existing and future project facilities, operations and maintenance (including recreational developments and other land use decisions) on cultural resources within the Area of Potential Effects. Issues addressed include numbers 2, 8, 11, 18, 21, 25, 26, 29, 37, 41, 45, 53, 58.		
	Cultural Resources Management	C03.01	Develop a Cultural Resources Management Plan to avoid, minimize and mitigate adverse project effects of existing and future project facilities, operations and maintenance on cultural resources.
		C03.02	Develop a Cultural Resources Management Plan based on an understanding of how the operation and maintenance of the project hydroelectric facilities and activities associated with the project (e.g., recreational use/developments, wildlife management, and fuel load management) could affect significant cultural resources values..
		C03.03	Develop management guidelines addressing the potential effects of project activities on cultural resources, with an emphasis on procedures needed to protect and enhance significant resource values.
		C03.04	Encourage and facilitate the positive involvement of all Native American groups (not just federally recognized tribes) and other interested individuals and organizations in the cultural resources program. Take efforts to obtain data from and encourage involvement of cultural resource elders.
C04	Provide for the interpretation of cultural resources and make available cultural resources data relative to the Oroville project area. Issues addressed include numbers 4, 7, 8, 11, 14, 16, 17-20, 23, 27, 29, 30, 37, 38, 43, 44, 47, 48, 49, 56, 57, 58.		
	Cultural Resources Interpretive Evaluation	C04.01	Make available cultural resources data that is gathered as part of the relicensing process to Native American groups, educators, government agencies and members of the public, as appropriate.
		C04.02	Maximize the public benefits of the heritage values (cultural, archaeological, and historical) present in the project area.
		C04.03	Emphasize the appropriate access to and availability of cultural resource knowledge and information to the local community.
		C04.04	Encourage and facilitate the positive involvement of all Native American groups (not just federally recognized tribes) and other interested individuals and organizations in the cultural resources interpretation program. Take efforts to obtain data from and encourage involvement of cultural resource elders.
		C04.05	Develop appropriate local facilities for curation, education, interpretation and study of cultural resources.
		C04.06	Develop appropriate interpretive displays (e.g. murals) at local historic sites for the benefit of the public.
		C04.07	Provide for the ongoing maintenance of developed facilities.

Code Number	Issue Statement Title	Goal Number	Goal
	Cultural Resources Interpretive Evaluation	C04.08	As part of the Cultural Resources Management Plan, develop sensitivity model for City and County use to lessen potential damage indirectly related to Oroville Facilities operations.
		C04.09	Provide areas for Native American collecting and gathering (fishing, basket making materials, medicinal plants, etc.)

Resource Goals - Engineering and Operations

Code Number	Issue Statement Title	Goal Number	Goal
E01	Evaluate the potential for adding additional generation using existing infrastructure, modifying facilities to increase storage and associated generation, and changing operation to provide spinning reserve (e.g., motoring) (Issues addressed: EE 1, 2, and 14).		
	Evaluation of Potential for Additional Generation	E01.01	Maximize the benefits from electrical power generation and ancillary services within other operational constraints.
		E01.02	Add additional power generation capacity if economically feasible.
		E01.03	Maintain or increase the water supply for all project purposes.
		E01.04	Maintain or increase operational flexibility and availability.
		E01.05	Maintain or increase generating capacity.
		E01.06	Maintain or enhance recreation facilities.
		E01.07	Continue to operate the Oroville facilities in a safe manner and maintain or enhance flood protection including maintaining adequate channel capacity downstream.
		E01.08	Cause no damage to project facilities, downstream properties, and fish and wildlife habitat.
		E01.09	Enhance environmental resources such as fish and wildlife habitat and water quality.
		E01.10	Add additional equipment if economically justified to enhance spinning reserve.
		E01.11	Explore the potential to form partnerships with private enterprise to maximize power generation.
E02	Evaluate the potential to improve operations through use of real-time watershed hydrologic projections for flood and non-flood conditions.		
	Evaluate Potential for Operations Improvements Through Hydrologic Projections	E02.01	Improve accuracy of inflow projections
	Potential for Operations Improvements Through Hydrologic Projections	E02.02	Improve efficiency of reservoir operations to increase water retained in reservoir storage
		E02.03	Enhance flood protection
		E02.04	Improve coordination with data gathering entities.
		E02.05	Update operational procedures

Code Number	Issue Statement Title	Goal Number	Goal
	Potential for Operations Improvements Through Hydrologic Projections	E02.06	Update Feather River computer model if necessary.
		E02.07	Add additional power generation capacity if economically feasible.
		E02.08	Maintain or increase the water supply for all project purposes.
		E02.09	Maintain or increase operational flexibility and availability.
		E02.10	Maintain or increase generating capacity.
		E02.11	Maintain or enhance recreation facilities.
		E02.12	Increase recreation opportunities.
		E02.13	Continue to operate the Oroville facilities in a safe manner and maintain or enhance flood protection including maintaining adequate channel capacity downstream.
		E02.14	Cause no damage to project facilities, downstream properties, and fish and wildlife habitat.
		E02.15	Enhance environmental resources such as fish and wildlife habitat and water quality.
		E02.16	Maintain maximum possible water levels to enhance recreation opportunities between Memorial Day and Labor Day.
E03	Evaluate potential for improved coordinated operation of Oroville Facilities through additional coordination with other water storage facilities and regulatory and resource agencies (e.g. CALFED).		
	Evaluate Potential for Improved Coordination	E03.01	Add additional power generation capacity if economically feasible.
		E03.02	Maintain or increase the water supply for all project purposes.
		E03.03	Maintain or increase operational flexibility and availability.
		E03.04	Maintain or increase generating capacity.
		E03.05	Maintain or enhance recreation facilities.
		E03.06	Continue to operate the Oroville facilities in a safe manner and maintain or enhance flood protection including maintaining adequate channel capacity downstream.
		E03.07	Cause no damage to project facilities, downstream properties, and fish and wildlife habitat.
		E03.08	Enhance environmental resources such as fish and wildlife habitat and water quality.

Code Number	Issue Statement Title	Goal Number	Goal
E04	Evaluate environmental and economic aspects of different flow regimes of Oroville Facilities operations. Factors to be considered include timing, magnitude and duration of flows, pump-back scheduling and maintenance scheduling, and hatchery operations.		
	Flow Regime Evaluation	E04.01	Add additional power generation capacity if economically feasible.
		E04.02	Maintain or increase the water supply for all project purposes.
		E04.03	Maintain or increase operational flexibility and availability.
		E04.04	Maintain or increase generating capacity.
		E04.05	Maintain or enhance recreation facilities.
		E04.06	Continue to operate the Oroville facilities in a safe manner and maintain or enhance flood protection including maintaining adequate channel capacity downstream.
		E04.07	Cause no damage to project facilities, downstream properties, and fish and wildlife habitat.
		E04.08	Enhance environmental resources such as fish and wildlife habitat and water quality.
		E04.09	Protect and increase water supply and power generation capability
E05	Impact of flood releases, including ramping rates, on Lake Oroville dam (including need for access to north side of dam) and downstream facilities including downstream levee stability and potential for ameliorating downstream flooding through coordinated releases with other water storage facilities. Consider past floods, improvements in channel carrying capacities, need for more storage (e.g., installing Obermeyer gates on the emergency spillway ogee), operational changes, early warning system for downstream releases, and updating of flood operation manual.		
	Flood Release Impacts	E05.01	Update flood operation manual
		E05.02	Minimize flood related impacts at Oroville Dam
		E05.03	Minimize flood related impacts along the Feather River downstream of Oroville Dam
		E05.04	Identify potential improvements to flood control operations including better coordination with other flood control facilities
		E05.05	Identify potential improvements to flood control facilities both at Oroville Dam and downstream along the Feather River
		E05.06	Enhance downstream levee stability
		E05.07	Enhance downstream channel flow capacity
		E05.08	Enhance access to north side of dam during flood control operation

Code Number	Issue Statement Title	Goal Number	Goal
	Flood Release Impacts	E05.09	Improve water supply storage
		E05.10	Improve early warning system and coordination and communication with local and State agencies
		E05.11	Produce flood inundation maps for various flows
		E05.12	Establish "boundary of no significant impact"
		E05.13	Add additional power generation capacity if economically feasible.
		E05.14	Maintain or increase the water supply for all project purposes.
		E05.15	Maintain or increase operational flexibility and availability.
		E05.16	Maintain or increase generating capacity.
		E05.17	Maintain or enhance recreation facilities.
		E05.18	Continue to operate the Oroville facilities in a safe manner and maintain or enhance flood protection including maintaining adequate channel capacity downstream.
		E05.19	Cause no damage to project facilities, downstream properties, and fish and wildlife habitat.
		E05.20	Enhance environmental resources such as fish and wildlife habitat and water quality. •Improved coordinated operation of Oroville Facilities through additional coordination with other water storage facilities and regulatory and resource agencies (e.g. CALFED). •Increase the priority for flood control
E06	Effect of ramping rates on downstream facilities, power generation, water supply, water temperatures, and fish.		
	Evaluate Effects of Ramping Rates	E06.01	Minimize water supply impacts associated with ramping.
		E06.02	Minimize the effects of ramping rates on fish and other aquatics regarding catastrophic drift and stranding.
		E06.03	Maintain operational flexibility for power generating purposes
		E06.04	Balance competing needs and impacts of required water supply provisions with hydro generation and ramping rates
		E06.05	Add additional power generation capacity if economically feasible.
		E06.06	Maintain or increase the water supply for all project purposes.

Code Number	Issue Statement Title	Goal Number	Goal
	Evaluate Effects of Ramping Rates	E06.07	Maintain or increase operational flexibility and availability.
		E06.08	Maintain or increase generating capacity.
		E06.09	Maintain or enhance recreation facilities.
		E06.10	Continue to operate the Oroville facilities in a safe manner and maintain or enhance flood protection including maintaining adequate channel capacity downstream.
		E06.11	Cause no damage to project facilities, downstream properties, and fish and wildlife habitat.
		E06.12	Enhance environmental resources such as fish and wildlife habitat and water quality.
E07	Effect of the project including discharge (magnitude, frequency and timing) and ramping rates and the altered stream hydrology on substrate scour, mobilization of sediments, turbidity levels, and riparian vegetation in the low flow reach and downstream of the Afterbay		
	Project Effects in Low Flow Reach and Downstream of the Afterbay	E07.01	Enhance and maintain natural geomorphic processes to the extent feasible
		E07.02	Maintain economic benefits of gravel mining operations
		E07.03	Maintain ability to operate Oroville Facilities in a safe, efficient and economic manner
		E07.04	Enhance and maintain riparian habitat and water quality
		E07.05	Maintain economic benefits of agricultural production downstream to confluence of Honcut Creek
		E07.06	Maintain channel conveyance capacity
		E07.07	Add additional power generation capacity if economically feasible.
		E07.08	Maintain or increase the water supply for all project purposes.
		E07.09	Maintain or increase operational flexibility and availability.
		E07.10	Maintain or increase generating capacity.
		E07.11	Provide adequate recreation facilities.
		E07.12	Continue to operate the Oroville facilities in a safe manner and maintain adequate flood protection including maintaining adequate channel capacity downstream.
		E07.13	Cause no damage to project facilities, downstream properties, and fish and wildlife habitat.

Code Number	Issue Statement Title	Goal Number	Goal
	Project Effects in Low Flow Reach and Downstream of the Afterbay	E07.14	Enhance environmental resources such as fish and wildlife habitat and water quality.
E08	Effect of reservoir sedimentation and those sediments on project operations		
	Effects of Reservoir Sedimentation	E08.01	Evaluate affect of reservoir sedimentation and sediments on project operations.
		E08.02	Add additional power generation capacity if economically feasible.
		E08.03	Maintain or increase the water supply for all project purposes.
		E08.04	Maintain or increase operational flexibility and availability.
		E08.05	Maintain or increase generating capacity.
		E08.06	Maintain or enhance recreation facilities.
		E08.07	Continue to operate the Oroville facilities in a safe manner and maintain or enhance flood protection including maintaining adequate channel capacity downstream.
		E08.08	Cause no damage to project facilities, downstream properties, and fish and wildlife habitat.
		E08.09	Enhance environmental resources such as fish and wildlife habitat and water quality.
E09	Effect of Oroville Facilities power generation pricing schedule on local economy.		
	Power Generation Pricing Schedule Impacts	E09.01	Identify impacts of power generation pricing on local economy.
E10	Effect of future water demands on project operations including power generation, lake levels and downstream flows. Consider sale of existing water allotments to downstream users		
	Effects of Future Water Demands	E10.01	Maintain maximum water supply and project operational characteristics
		E10.02	Maximize water supply and power generation while maintaining system flexibility and reliability.
		E10.03	Add additional power generation capacity if economically feasible.
		E10.04	Maintain or increase the water supply for all project purposes.
		E10.05	Maintain or increase operational flexibility and availability.
		E10.06	Maintain or increase generating capacity.
		E10.07	Maintain or enhance recreation facilities.

Code Number	Issue Statement Title	Goal Number	Goal
	Effects of Future Water Demands	E10.08	Continue to operate the Oroville facilities in a safe manner and maintain or enhance flood protection including maintaining adequate channel capacity downstream.
		E10.09	Cause no damage to project facilities, downstream properties, and fish and wildlife habitat.
		E10.10	Enhance environmental resources such as fish and wildlife habitat and water quality.
		E10.11	Maintain maximum possible reservoir water levels to enhance recreation opportunities between Memorial Day and Labor Day.
E11	Effect of tires in Parrish Cove and Bidwell Cove and stakes used to hold down recycled Christmas trees on public safety		
	Effects of Tires	E11.01	
E12	Evaluate operational and engineering alternatives including selective withdrawal from Lake Oroville, Thermalito Afterbay, the hatchery, and the low flow section to meet various downstream temperature requirements		
	Evaluation of Operational and Engineering Alternatives to meet Temperature Requirements	E12.01	Quantify the relationship between various release schemes and water temperature from reservoir to the confluence with the Yuba River.
	Evaluation of Operational and Engineering Alternatives to meet Temperature Requirements	E12.02	Add additional power generation capacity if economically feasible.
	Evaluation of Operational and Engineering Alternatives to meet Temperature Requirements	E12.03	Maintain or increase the water supply for all project purposes.
		E12.04	Maintain or increase operational flexibility and availability.
		E12.05	Maintain or increase generating capacity.
		E12.06	Maintain or enhance recreation facilities.
		E12.07	Continue to operate the Oroville facilities in a safe manner and maintain or enhance flood protection including maintaining adequate channel capacity downstream.
		E12.08	Cause no damage to project facilities, downstream properties, and fish and wildlife habitat.
		E12.09	Enhance environmental resources such as fish and wildlife habitat and water quality.
		E12.10	Provide adequate water temperatures for fisheries, agriculture and recreation temperature requirements.

Code Number	Issue Statement Title	Goal Number	Goal
E13	Evaluate operational and engineering alternatives to prevent interbreeding of fall and spring-run Chinook salmon in the low flow section of the Feather River (e.g., migration barrier and/or flow and temperature changes)		
	Evaluation of Operational and Engineering Alternatives to Prevent Interbreeding	E13.01	Add additional power generation capacity if economically feasible.
		E13.02	Maintain or increase the water supply for all project purposes.
		E13.03	Maintain or increase operational flexibility and availability.
		E13.04	Maintain or increase generating capacity.
		E13.05	Maintain or enhance recreation facilities.
		E13.06	Continue to operate the Oroville facilities in a safe manner and maintain or enhance flood protection including maintaining adequate channel capacity downstream.
		E13.07	Cause no damage to project facilities, downstream properties, and fish and wildlife habitat.
		E13.08	Enhance environmental resources such as fish and wildlife habitat and water quality.
E14	Evaluate operational alternatives that balance and maintain acceptable water quality standards including those for MTBE under all operational plans and conditions		
	Evaluation of Operational Alternatives that Balance and Maintain Water Quality	E14.01	Add additional power generation capacity if economically feasible.
		E14.02	Maintain or increase the water supply for all project purposes.
		E14.03	Maintain or increase operational flexibility and availability.
		E14.04	Maintain or increase generating capacity.
		E14.05	Maintain or enhance recreation facilities.
		E14.06	Continue to operate the Oroville facilities in a safe manner and maintain or enhance flood protection including maintaining adequate channel capacity downstream.
		E14.07	Cause no damage to health, public project facilities, downstream properties, and fish and wildlife habitat.
		E14.08	Enhance environmental resources such as fish and wildlife habitat and water quality.
		E14.09	Stop sewage spills into Lake Oroville
E15	Evaluate operation alternatives that maintain or improve current water supply under all operation plans and conditions.		

Code Number	Issue Statement Title	Goal Number	Goal
	Evaluation of Water Supply Operational Alternatives	E15.01	Maximize water supply and power generation while maintaining system flexibility and reliability.
		E15.02	Add additional power generation capacity if economically feasible.
		E15.03	Maintain or increase the water supply for all project purposes.
		E15.04	Maintain or increase operational flexibility and availability.
		E15.05	Maintain or increase generating capacity.
		E15.06	Maintain or enhance recreation facilities.
		E15.07	Continue to operate the Oroville facilities in a safe manner and maintain or enhance flood protection including maintaining adequate channel capacity downstream.
		E15.08	Cause no damage to project facilities, downstream properties, and fish and wildlife habitat.
		E15.09	Improved coordinated operation of Oroville Facilities through additional coordination with other water storage facilities and regulatory and resource agencies (e.g. CALFED).
		E15.10	Enhance environmental resources such as fish and wildlife habitat and water quality.

Resource Goals - Environmental - Fisheries

Code Number	Issue Statement Title	Goal Number	Goal
F01	Effects of existing and future project operations (including power generation, water storage, ramping rates, and releases, pump-back, water levels, and water level fluctuations) during all water year types on the behavior (e.g., migration timing, microhabitat selection, vulnerability to predators), reproduction, survival and habitat of warm- and cold-water fish and other aquatic resources (e.g., macro invertebrates), which include project waters and tributaries within the project boundaries (Lake Oroville, Diversion Pool, Fish Barrier Pool, Forebay, Afterbay, Oroville Wildlife Area), and in project affected waters.		
	Effects of Existing and Future Project Operations on Fish and Aquatic Resources	F01.01	Minimize and mitigate adverse project related effects on fish and aquatic resources.
		F01.02	Cold- and warm-water fisheries sufficient to support desired recreational and commercial fisheries.
		F01.03	Healthy native fish assemblage.
F02	Effects of existing and future project operations (e.g., pump-back operations, hatchery production, water temperature, etc.), and fisheries management activities (e.g., fish stocking) on the establishment, transmission, extent, and control of IHN, BKD, and other significant cold-water and warm-water fish diseases within Lake Oroville and lower river.		
	Effects of Project Operations on Fish Diseases	F02.01	Minimize or eliminate adverse project related effects on fish diseases within project waters, and project affected waters.
		F02.02	Initiate efforts to minimize or eliminate adverse project related effects on IHN within project waters, and project affected waters prior to license application submittal
		F02.03	Healthy freshwater and ocean fishery
F03	Project effects on resident fish species (e.g., trout and other salmonids and warm-water fish), habitat quantity and quality (including instream flow, sediment, woody debris, water temperature, etc.), and habitat for other aquatic species.		
	Effects of Project on Resident Fish Habitat	F03.01	Minimize or mitigate adverse project related effects on the habitat of resident fish.
		F03.02	Provide cold- and warm-water fisheries sufficient to support desired recreational and commercial (bait, crayfish, etc.) fisheries.
		F03.03	Enhance habitat for resident aquatic species.
		F03.04	Minimize impact of stocked resident and introduced fish on wild, anadromous salmonids.
F04	Project effects on resident fish passage, including North Fork Feather River at Big Bend Dam, tributary streams, and project affected waters.		
	Project Effects on Resident Fish Passage	F04.01	Minimize and mitigate adverse project related effects on the passage of resident fish.
		F04.02	Enhance passage of resident fish.

Code Number	Issue Statement Title	Goal Number	Goal
F05	Effects of existing and proposed fisheries management plan(s) and activities on a balanced cold- and warm-water fishery (including stocking levels, hatchery management and production relative to in-river populations, habitat enhancement projects, predator and undesirable species control, and prevention of future introductions (e.g., Northern pike, striped bass, etc.), disease, tree stakes and tire removal, and harvest).		
	Effects of Fisheries Management Plans on a Balanced Fishery	F05.01	Minimize and mitigate adverse project related effects on a balanced warm and cold water fishery.
		F05.02	Provide a balanced warm and cold water fishery.
F06	Effects of existing and future project operations on sediment deposition, erosion, and recruitment through the system (including downstream sediment supply) and associated changes in water quality on the quantity and quality of aquatic habitats within project affected waters.		
	Sediment	F06.01	Minimize and mitigate project impacts that harm aquatic habitats by altering geomorphic processes or degrading water quality.
		F06.02	Enhance aquatic habitats through alteration of geomorphic processes.
F07	Project effects on interactions, including predation and competition, among lake and tributary fish populations (e.g., land-locked Chinook salmon, trout, bass, and other land-locked species) that affect species abundance, growth, reproduction, and survival.		
	Effects of Project on Lake and Tributary Fish Interactions	F07.01	Minimize and mitigate adverse project effects on interactions between lake and tributary fish populations.
		F07.02	Enhance tributary and lake fisheries.
F08	Project effects on resource energy balance in terms of changes in biomass and nutrient dispersal due to loss of anadromous fish carcasses upstream of Lake Oroville (on fish and wildlife).		
	Anadromous Fish Nutrient Transport	F08.01	Minimize and mitigate project related impacts on nutrient transport to tributaries of project waters.
F09	Hatchery effects (e.g., straying, genetic impacts, harvest rates, disease, temperature requirements, interactions with native fish such as predation and competition) on salmonid populations in the Feather River watershed and other Central Valley tributaries and on ecosystem restoration within project waters and project affected waters.		
	Hatchery Effects	F09.01	Minimize and mitigate hatchery impacts on naturally produced salmonids.
		F09.02	Provide populations of anadromous fish sufficient to support recreational and commercial fisheries.
		F09.03	Continued mitigation for loss of anadromous fish spawning habitat in the Feather River
F10	Effect of existing and future project facilities and operations on anadromous fish habitat and populations (e.g., instream flows, water temperature, ramping rates, riparian habitat, large woody debris, predation, spawning gravels, stranding and desiccation, macro invertebrate prey base, upstream and downstream passage, rearing conditions).		

Code Number	Issue Statement Title	Goal Number	Goal
	Anadromous Fish Habitat	F10.01	Minimize and mitigate adverse project impacts on habitat, genetic integrity and population size of anadromous fishes.
		F10.02	Increase natural production of steelhead, spring-run and fall-run chinook salmon and other anadromous fish.
		F10.03	Provide populations of anadromous fish sufficient to support desired recreational and commercial fisheries.
F11	Compliance of project operations with SWP Feather River Flow Constraints and adequacy of constraints to protect anadromous fish and other aquatic species in the low-flow section and in the river downstream of the Afterbay.		
	Compliance and Adequacy of Flow Constraints	F11.01	Minimize and mitigate adverse project impacts on habitat, genetic integrity and population size of anadromous fishes.
		F11.02	Provide populations of anadromous fish sufficient to support desired recreational and commercial fisheries.
F12	Evaluate existing and reasonably foreseeable future project effects in terms of cumulative impacts on regional fisheries, fish passage, and habitat quality and quantity within project-affected areas.		
	Cumulative Effects on Fisheries	F12.01	Fisheries sufficient to support desired recreational and commercial fisheries.
		F12.02	Minimize and mitigate adverse project effects on regional fisheries and habitat.
F13	Project effects on fish species listed for protection under the California and/or federal Endangered Species Acts (ESA), species of special concern, candidate species, proposed, and likely listed threatened and/or endangered fish species, and the habitat needed to support them.		
	Project Effect on Listed Fish Species	F13.01	Minimize and mitigate adverse project impacts on habitat, genetic integrity and population size of listed species.
		F13.02	Increase natural production of steelhead and spring-run chinook.
		F13.03	Restore populations of listed fish species.
F14	Effects of existing and future project facilities and operations on the levels of recruitment of Feather River salmonids to the ocean population (e.g., sustained production of 20 percent of the commercial catch).		
	Feather River Salmon Production	F14.01	Minimize and mitigate adverse project impacts on habitat, genetic integrity and population size of anadromous fishes.
		F14.02	Provide populations of Chinook salmon sufficient to support desired recreational and commercial fisheries.

Code Number	Issue Statement Title	Goal Number	Goal
F15	Evaluate the quantity and quality of existing upstream habitat conditions and potential sources of mortality for anadromous salmonid spawning, rearing, and juvenile emigration. If upstream habitat conditions and constraints (e.g., disease transmission) are considered to be suitable, evaluate the feasibility of alternative methods for providing passage of anadromous salmonids (e.g., fish ladder, fish elevator, bypass channel, trap-and-truck), upstream of Oroville Dam. Assess conflicts and constraints among species and life stages and their habitat, and evaluate the overall biological benefits to the species and upstream ecosystem (e.g., nutrient transfer).		
	Upstream Habitat for Anadromous Fish	F15.01	Minimize and mitigate adverse project-related effects on anadromous fish passage and ecological functions.
		F15.02	Provide populations of anadromous fish sufficient to support desired fisheries and ecological functions.
		F15.03	Provide for upstream passage of anadromous fish.
		F15.04	Minimize the effects of non-endemic pathogens carried by anadromous fish transported to the upper watershed.
F16	Effects of existing and future project facilities and operations on the abundance of predators, their seasonal and geographic distribution, the impact of predation mortality on population dynamics of salmonids and other species, and alternatives for predator control and management (including prevention of introductions).		
	Predators	F16.01	Minimize adverse project impacts that increase predation pressure on salmonids and other species beyond natural or expected rates.

Resource Goals - Environmental - Geomorphology

Code Number	Issue Statement Title	Goal Number	Goal
G01	Effects of existing and future project operations on natural geomorphic processes. These include physical attributes and functions (e.g., channel morphology, channel stability, sediment transport and deposition, spawning gravel and large woody debris recruitment, habitat diversity) and subsequent effects on biological resources (e.g., aquatic macro- invertebrates, riparian vegetation) in the low-flow section and in the Feather River downstream of Thermalito Afterbay under wet and dry year criteria.		
	Effects of Project Operations on Geomorphic Processes	G01.01	Minimize and mitigate adverse project impacts to the extent feasible on natural geomorphic processes in the downstream reaches.
		G01.02	Maintain and enhance or increase aquatic and terrestrial habitat.
		G01.03	Minimize project impacts on the erosion of downstream properties and resources of statewide significance (as defined in CEQA).
G02	Project effects on channel capacity and potential need for more storage/flood protection.		
	Project Effects on Channel Capacity and Storage for Flood Protection	G02.01	Maintain channel design capacity and reduce the risk of flooding
		G02.02	Maintain and enhance channel and floodway capacity.
		G02.03	Maintain and enhance flood routing characteristics to maintain the current level of risk or reduce the risk of flooding.
		G02.04	Operate the project in a manner consistent with the floodflow releases required in the Corps manual.
G03	The need to coordinate long-range watershed planning activities with local, State, and federal agencies and private landowners.		
	Coordinating Long-Range Watershed planning activities with Local, State, Federal Agencies and Local Landowners	G03.01	In reviewing this issue statement, the task force agreed that no study was needed to address coordination of long-range watershed planning activities. The existing Upper Feather River Coordination Program, of which DWR is a participant, currently considers watershed issues. The requirement for DWR to coordinate with agencies and landowners on activities outside the project boundary was considered by the task force members to be outside the scope of FERC jurisdiction. We note, however, that through the Federal Power Act, the Federal Energy Regulatory Commission (FERC) is required to consider the extent to which the Oroville Facilities is consistent with a comprehensive plan for improving, developing, or conserving a waterway or waterways affected by the project. Accordingly, as no dedicated study is needed and as the issue is not within FERC's jurisdiction, the Task Force recommends that this issue be considered as a potential settlement issue to be proposed by settlement participants during settlement negotiations. (Wayne will work with Steve to adjust language) Determine place or bin to hold this until needed.
G04	Project effects on sediment accumulation upstream of the dam.		

Code Number	Issue Statement Title	Goal Number	Goal
	Project Effects on Sediment Movement and Deposition Upstream of Oroville Dam	G04.01	Minimize and mitigate adverse project impacts of sediment deposition in Lake Oroville on fisheries resources and water quality.
		G04.02	Reduce the rate and amount of sediment depositing in Lake Oroville
G05	Effect of the project including discharge (magnitude, frequency, and timing) and ramping rates and the altered stream hydrology on substrate scour, mobilization of sediments, turbidity levels, and riparian vegetation in the low flow reach and downstream of the Afterbay.		
	Effect of the Project Related Hydrologic Changes on Stream Geomorphology	G05.01	Minimize and mitigate adverse project impacts resulting from altered flow regimes.
		G05.02	Return as far as is practicable to natural sedimentation and scour regime in the river below the dam.

Resource Goals - Environmental - Terrestrial

Code Number	Issue Statement Title	Goal Number	Goal
T01	Effects of project features, existing and future operations (including power generation, water storage and releases, ramping rates, pump-back, water levels and water level fluctuations), and maintenance on wildlife and wildlife habitat. Specific concerns include deer winter range, band-tailed pigeon winter habitat, designated emphasis and harvest species, wintering, brooding, and nesting waterfowl, and other wildlife use of project and project-affected waters.		
	Effects of Project Features and Operation on Wildlife and Wildlife Habitat	T01.01	Minimize and mitigate project-related impacts on wildlife and wildlife habitat
		T01.02	Enhance wildlife and wildlife habitat within the FERC project boundary
T02	Project effects on federal and State listed, species of concern, candidate, proposed, and likely listed threatened, endangered, sensitive, and special interest plant and animal species, and the habitat needed to support them. Concerns include, but are not limited to, amphibians, bald eagle foraging habitat, winter roosts, and nesting territories.		
	Project Effects on Special Status Plant and Animal Species	T02.01	Minimize and mitigate adverse project effects on special status plant and animal species
		T02.02	Promote the expansion of sensitive species
T03	Effects of existing and future project operations on floodplains and project water fluctuation zones, including soil stability, wildlife habitat and natural flood management functions, revegetation of native plant communities, and restoration opportunities (e.g., red willow planting).		
	Project Effects on Floodplains and Water Fluctuation Zones	T03.01	Minimize and mitigate adverse project-related effects on levee bound floodplain and soil stability, wildlife habitat, native plant communities and project water fluctuation.
		T03.02	Enhance vegetation and wildlife habitat within the levee bound floodplain and project water fluctuation zone.
T04	Existing and future project effects on biodiversity (including plant species, seral stages, vegetation types and communities, and wildlife) and ecosystem health and stability.		
	Project Effects on Biodiversity and Ecosystem Health and Stability	T04.01	Minimize and mitigate adverse project-related effects on plant and wildlife species diversity
		T04.02	Maintain viable populations of all native species with emphasis on sensitive species
		T04.03	Maintain viable populations of desirable non-native animal species
		T04.04	Minimize and mitigate adverse project-related effects on biodiversity and ecosystem health
		T04.05	Enhance biodiversity and ecosystem health and stability
T05	Project effects on riparian resources and protection and management of riparian habitat and wetlands (including vernal pools and brood ponds).		
	Project Effects on Riparian Resources and Wetlands	T05.01	Minimize and mitigate adverse project-related effects on riparian and wetland ecosystems along the Feather River.

Code Number	Issue Statement Title	Goal Number	Goal
	Project Effects on Riparian Resources and Wetlands	T05.02	Enhance riparian and wetland habitats including floodplain and upland wetlands, vernal pools, and brood ponds within the project boundary.
T06	Interagency management coordination; adequacy of management plans and activities and funding for wildlife management.		
	Interagency Wildlife Management Coordination	T06.01	Development of coordinated interagency wildlife management plan(s) for lands within the project boundary which promote wildlife species diversity, population of sensitive wildlife species, and recreationally/commercially important species.
T07	Effects of the project on the introduction, distribution and management of noxious terrestrial and aquatic weeds.		
	Effects on Noxious Terrestrial and Aquatic Plant Species	T07.01	Minimize and mitigate project-related effects on the dispersal of noxious weeds
		T07.02	Incorporate project lands in county-wide mapping process of noxious weeds
		T07.03	Control noxious weeds of greatest ecological and agricultural concern
		T07.04	Remove undesirable non-native plant species around lake, river, forebay and afterbay areas especially star thistle, ailanthus, and other invasive plant species
		T07.05	Restore disturbed sites with native plant communities •Minimize •Minimize
		T07.06	*Minimize and mitigate project-related effects on dispersal of noxious aquatic weeds into* downstream irrigation canals
T08	Effects of the project on the introduction, distribution and management of undesirable non-native wildlife species.		
	Project Effects on Undesirable Non-native Wildlife	T08.01	Minimize and mitigate project-related effects on native wildlife by undesirable non-native wildlife species
T09	Effects of existing and future project-related recreation facilities, activities (including authorized and unauthorized access and use) and management on nesting and wintering Pacific Flyway waterfowl, other wildlife, and plant communities.		
	Recreation and Wildlife	T09.01	Minimize and mitigate project-related recreation impacts on wildlife and plant communities
		T09.02	Enhance nesting and wintering Pacific Flyway waterfowl and plant communities
T10	Effects of existing and future project features, operations and maintenance on upland habitat types, including revegetation and restoration efforts.		
	Project Effects on Upland Habitat, Revegetation, and Restoration	T10.01	Minimize and mitigate project-related effects on upland habitat
		T10.02	Enhance upland habitat on project lands

Code Number	Issue Statement Title	Goal Number	Goal
T11	Effects of fire prevention/fuel load control on natural communities.		
	Fire Prevention/Fuel Load Control	T11.01	Identify fire prevention management practices to help reduce damage from fires to natural and man-made resources and enhance habitat diversity.
		T11.02	Minimize negative impacts to wildlife habitat through fire and fuel load management practices to enhance public safety (sensitive to wildlife habitat)

Resource Goals - Environmental - Water Quality

Code Number	Issue Statement Title	Goal Number	Goal
W01	Effects of existing and future project operations and facilities on all designated beneficial uses of the water. The beneficial uses for the Lake Oroville and Feather River downstream as defined in the Basin Plan include municipal and domestic supply, agriculture, electrical power production, contact and non-contact recreation, warm-water and cold-water fish spawning, rearing and migration, cold and warm freshwater habitat, and wildlife habitat.		
	Project Effects on Designated Beneficial Uses	W01.01	Minimize and mitigate adverse project effects on water quality to protect all beneficial uses.
		W01.02	Ensure project related activities maintain or improve water quality to protect beneficial uses and meet or exceed State and other applicable objectives, goals, and criteria.
W02	Effects of existing and future project operations on compliance with water quality objectives identified in the Regional Water Quality Control Board (RWQCB) Basin Plan. Specific compliance issues include bacteria, chemical constituents, dissolved oxygen, pH, oil and grease, pesticides, sediment, temperature, toxicity, and turbidity.		
	Project Effects on Water Quality Objectives	W02.01	Minimize and mitigate adverse project effects on water quality
		W02.02	Ensure that water quality factors controllable by the project comply with Basin Plan objectives
W03	Effects of existing and future project operations on the physical, chemical, and biological components of water quality of the Feather River, affected tributaries, and downstream waters. The project has the potential for direct and indirect effects on aquatic ecosystem health, on recreational opportunity, and on domestic and agricultural water supply.		
	Project Effects on Feather River and Tributaries	W03.01	Minimize and mitigate adverse project effects on the physical, chemical, and biological integrity of water in Oroville Reservoir, its tributaries, and the Feather River.
		W03.02	Ensure factors controllable by the project sustain the physical, chemical, and biological integrity of water in Oroville Reservoir, its tributaries, and the Feather River.
W04	Effects of existing and future project operations and facilities and its associated recreational facilities, activities, and uses on water quality. Proximity of project features and recreational facilities to shoreline and banks of water bodies offers potential for introduction of nutrients and bacterial contaminants to these waters.		
	Effects of Project Operations and Facilities on Water Quality	W04.01	Minimize and mitigate adverse effects of project operations, facilities, and recreation features on water quality.
		W04.02	Enhance water quality to the extent possible with project operations to protect beneficial uses.
W05	*Effects of existing and future water-based recreation on water quality of project waters. Concerns include MTBE, oils and greases, fuel spills, floating gas tanks, floating septic systems, floating restrooms, houseboat gray water tanks (e.g., nutrients), and pump out facilities.*		
	Effects of Recreation Features on Water Quality	W05.01	Operate project related recreational facilities and activities to protect suitability of project waters for all beneficial uses

Code Number	Issue Statement Title	Goal Number	Goal
	Effects of Recreation Features on Water Quality	W05.02	Adequate facilities and measures for safe handling of sanitary and commercial wastes from residential or commercial developments adjacent to project waters. (Insert Butte County resource goal related to MTBE)
W06	Effect of existing and future project facilities and operations on sediment deposition and potential impoundment of metals and toxins, including the potential presence and uptake of methyl mercury through the food chain.		
	Metals and Toxins Accumulation in Sediments and Aquatic Food Chain	W06.01	Minimize project effects, to the extent possible, upon bioaccumulation in the aquatic food chain of metals and other toxic contaminants.
W07	Effect of existing and future project-related land management and watershed management activities (including waste disposal and pesticide use) on water quality, slope stability, erosion, sedimentation, channel stability, riparian habitat, fish habitat, and other beneficial uses.		
	Effects of Project Related Land Management Activities	W07.01	Minimize and mitigate adverse project related land management activities on water quality, slope stability, erosion, sedimentation, channel stability, riparian habitat, fish habitat, and other beneficial uses.
		W07.02	Protect riparian areas and water quality by limiting disturbance in streamside management zones according to ground slope and stability, stream class, channel stability, fishery, and other beneficial uses
		W07.03	Avoid water quality degradation by using Best Management Practices during land management activities
		W07.04	Reduce sedimentation and channel erosion by rehabilitating deteriorating watersheds
W08	Effect of existing and future project facilities and operations on natural hydrology (i.e., impaired and unimpaired hydrology).		
	Effects of Project on Natural Hydrology	W08.01	Minimize and mitigate adverse project effects on natural hydrology
		W08.02	Restore more natural hydrograph to the extent possible consistent with project purposes
W09	Effects of existing and future project facilities and operations on thermal stratification and other thermal processes on project waters, including availability of cold water for release in various water year types under current and future operational demands.		
	Thermal Regime of Project Waters	W09.01	Minimize and mitigate adverse project effects on water temperatures needed to protect beneficial uses.
		W09.02	Maintain suitable water temperatures in waters affected by the project to protect beneficial uses.
W10	Effects of existing and future water releases and operations on water temperatures in the Diversion Pool, Forebay, Afterbay, Oroville Wildlife Area, low-flow section of the river and downstream areas; at the hatchery; for agriculture; and the quality and availability of habitat for salmonids and other aquatic resources.		
	Project Effects on Water Temperatures Downstream from Oroville Dam	W10.01	Minimize and mitigate adverse project effects on water temperatures needed to protect beneficial uses.
		W10.02	Maintain suitable water temperatures in waters affected by the project to protect beneficial uses.

Code Number	Issue Statement Title	Goal Number	Goal
W11	Existing and future project compliance with temperature requirements of the SWP Feather River Flow Constraints and effectiveness of constraints for (a) protection of salmonids in the low-flow and high-flow sections of the Feather River; (b) hatchery operation; and (c) agricultural operations.		
	Project Effects on Temperature Compliance	W11.01	Minimize and mitigate adverse project impacts on water temperatures
		W11.02	Ensure that water temperatures downstream from Oroville Dam are suitable for all beneficial uses designated in the Basin Plan
		W11.03	Minimize fish disease through thermal regulation downstream from Oroville Dam
W12	Effects of existing and future project facilities and operations on access to the cold-water pool during below normal (BN) water years and multiple BN water years under existing and future operational demands, and effectiveness of the Temperature Control Device in providing access.		
	Access to Cold-water Pool	W12.01	Minimize and mitigate adverse project impacts on availability of cold water required for certain beneficial uses
		W12.02	Ensure that water temperatures downstream from Oroville Dam are suitable for all beneficial uses during all hydrologic conditions.
W13	Effects of existing and future hatchery operations on water quality and water temperatures in the Feather River and Afterbay.		
	Hatchery Effects on Water Quality	W13.01	Minimize effects of project related hatchery operations on water quality and temperature in project waters
		W13.02	Ensure suitable water temperatures for salmonids in both the Feather River Hatchery and low flow section of the Feather River.
		W13.03	Maintain suitable water quality for beneficial uses in the Feather River downstream from the hatchery.
W14	Effects of existing and future pump-back operations on water quality and water temperatures (in Lake Oroville, Diversion Pool, Forebay, Afterbay, and Oroville Wildlife Area), habitat suitability, and out migration for salmonids.		
	Effects of Pump-back Operations	W14.01	Minimize and mitigate adverse project effects on water quality and temperature due to pump-back operations
		W14.02	Maintain suitable water quality and temperatures for fish and other aquatic resources in project waters.
W15	Potential for non-project-related toxic spills (e.g., from railroad operations) and effects of toxic spills on project waters.		
	Toxic Spills	W15.01	No FERC study plan is necessary for this issue. The FERC project has no effect on non-project related toxic spills from non-project related activities. DWR will work with other agencies that have direct responsibility for preparation of response plans for non-project related toxic spills. Project-related spills are addressed under existing operational plans.
W16	Cumulative effects of project operations and other past, present, and reasonably foreseeable future actions on water quality characteristics that are crucial to Oroville Facilities Relicensing resource issues.		

Code Number	Issue Statement Title	Goal Number	Goal
	Cumulative Effects on Water Quality	W16.01	Minimize and mitigate adverse cumulative effects of project on water quality.
		W16.02	Maintain water quality in the Feather and Sacramento rivers.
W17	Effects of reservoirs and Feather River downstream of Oroville Dam on groundwater quality and quantity (e.g. hyporheic zone interaction).		
	Project Effects on Groundwater including hyporheic zone	W17.01	Minimize adverse project effects on groundwater movement, quality and level.
W18	Effect of existing and future project facilities and operations on natural protective processes (e.g., marshes).		
	Project Effects on Natural Protective Processes	W18.01	Minimize and mitigate adverse project effects on natural protective processes
		W18.02	Enhance natural processes for maintaining water quality

Resource Goals - Land Use, Land Management and Aesthetics

Code Number	Issue Statement Title	Goal Number	Goal
A01	What are the effects of reservoir drawdown on the visual quality at Lake Oroville and other project lands?		
	Evaluation of Visual Drawdown Effects	A01.01	Improve (to the extent feasible within the project purposes and operational, legal, and environmental constraints) the appearance of the areas that are negatively affected by the reservoir drawdown.
A02	What are the effects of construction debris, garbage, and invasive species on the appearance of project lands?		
	Effects of construction debris, garbage, and invasive species on Project Lands Appearance	A02.01	Clean up areas where there is litter and trash and to take appropriate actions that will help to minimize littering and illegal trash disposal in the future.
		A02.02	Remove or screen construction debris in visually sensitive areas where it substantially detracts from the aesthetic quality of the environment and the experience of visitors.
		A02.03	Manage project lands to minimize the aesthetic effects of noxious and invasive plant species.
A03	What are the appropriate landscaping, restoration, preservation, vegetation and facilities management/maintenance programs for aesthetic enhancement of project lands?		
	Determine Appropriate Aesthetic Enhancement Programs	A03.01	Preserve and restore existing vegetation and landscaping and to manage and maintain facilities to assure a high level of visual attractiveness on project lands.
		A03.02	Improve and maintain facilities landscaping.
		A03.03	Preserve native vegetation.
		A03.04	Avoid negative aesthetic impacts of fuel load management.
A04	What are the effects of existing and future project features (including transmission lines, trails, etc) and land uses on the aesthetic quality of project lands?		
	Effects of Project Features on Aesthetic Quality	A04.01	Modify or mitigate significant adverse visual effects.
		A04.02	Protect and enhance the project area's aesthetic qualities.
		A04.03	Utilize environmentally sensitive methods to maintain aesthetic qualities of trails.
		A04.04	Maintain appropriate undeveloped and primitive aesthetic features in project area.
		A04.05	Maintain the ability to operate project facilities in a safe, efficient and economical manner.
LM01	What are the funding and staffing needs to adequately address land management for the Oroville Wildlife Area, Lake Oroville State Recreation Area (LOSRA), Thermalito Afterbay, and other project lands?		

Code Number	Issue Statement Title	Goal Number	Goal
	Land Management Funding Evaluation	LM01.01	Sufficient funding for full, fair and professional enforcement of the regulations at the Wildlife Area, LOSRA, and Thermalito Afterbay and to protect and manage resources and assure public safety.
		LM01.02	Sufficient funding to assure proper clean-up and facilities maintenance
		LM01.03	Sufficient funding to maintain and enhance the habitat within the Oroville Wildlife Area and LOSRA. (May overlap with Environmental Work Group issues statements and resource goals)
		LM01.04	Sufficient funding to maximize responsible public use and access consistent with protection of natural and cultural resources.
LM02	What are the existing and future fuel loads, fuel management practices, and coordination of fuel management activities for lands located within and adjacent to the project boundary to manage the risk of loss of property, lives, and natural resources?		
	Future Fuel Management Evaluation	LM02.01	Development of a comprehensive understanding of fuel loads and fuel load issues on project lands and lands in the vicinity of the project area sufficient to identify risks, options, and a strategy for action.
		LM02.02	In an integrated effort with appropriate agencies, manage fuel loads on project lands and on lands in the surrounding area to optimize for fire safety and the achievement of other objectives.
LM03	What is an appropriate arrangement for land management of recreation facilities of LOSRA, Thermalito Afterbay, Wildlife area and other project lands?		
	LOSRA Recreation Facilities Land Management Evaluation	LM03.01	Operation of the LOSRA, Thermalito Afterbay, and Wildlife area facilities in a way that will facilitate expansion of visitor and recreational facilities, is responsive to market demand, provide a stimulus to further local economic development, and be compatible with applicable management objectives.
		LM03.02	Operation of LOSRA, Thermalito Afterbay, and Wildlife area facilities in a way that will be efficient, responsive to visitor needs, oriented toward increases in visitor numbers, visitor spending, and visitor satisfaction with their experience and be compatible with applicable management objectives.
		LM03.03	Consider a written agreement between DPR and Plumas National Forest regarding the management of project lands within the Forest.
LM04	What are appropriate law enforcement activities, security and penalties for project lands?		
	Law Enforcement, Security, and Penalties Analysis	LM04.01	Full, fair and professional establishment, promulgation, and enforcement of regulations to protect project facilities and resources and assure public safety.
LU01	What are the appropriate, compatible, and potential developmental and non-developmental uses of project lands especially for public use, public access, open space, recreational uses, watershed and natural resources protection/management, energy resources and cultural values in a way that integrates and respects: 1) resource constraints; 2) adjacent land uses; and 3) applicable plans (including the Forest Service, State, County, and City of Oroville land planning and zoning) and policies for project lands and adjacent lands?		

Code Number	Issue Statement Title	Goal Number	Goal
	Evaluation of Potential Developmental and Non-Developmental Uses of Project Lands	LU01.01	Compliance of the Oroville Facilities with FERC regulations and orders.
		LU01.02	Use of project lands in a way that is consistent with project objectives.
		LU01.03	Use of project lands with consideration for consistency with the objectives of local plans and resource agency plans for the area as a whole and for the lands in the immediate vicinity of the project area.
		LU01.04	Protection of areas with valuable natural, recreational and cultural resources.
		LU01.05	Development of additional land uses including visitor access and recreational facilities on existing and new sites.
		LU01.06	Sitting of proposed land uses on project lands that considers objectives of local plans, and is consistent with sensitive resources, resource constraints, surrounding land uses, and linkages with the surrounding area's development pattern.
		LU01.07	Encourage local agency to consider non-project land use impacts on project land uses, aesthetics, and environmental qualities when zoning land and considering approval development projects.
		LU01.08	Utilize livestock grazing on project lands if appropriate to achieve land use and management objectives.
LU02	What is the potential for acquiring or removing project lands (including other property interests) to meet resource goals?		
	Potential for Acquiring and Removing Project Lands	LU02.01	Compliance of the Oroville Facilities with FERC regulations and orders.
		LU02.02	Use of project lands and other lands that may be acquired in the project vicinity in a way that is consistent with project objectives.
		LU02.03	Protection of lands contiguous to the project area that are strategically important for protecting valuable natural, recreational and cultural resources located within the project's current boundaries.
		LU02.04	Incorporation of additional lands into the project area that are needed to provide for the development of new or expanded visitor and recreational facilities.
		LU02.05	Acquisition or removal of lands including surplus lands within or nearby the project area after consideration for achievement of project operational goals, protection of resources or development of project visitor and recreational facilities and which have potential strategic importance as locations for development activities to meet community needs.

Resource Goals - Recreation and Socioeconomics

Code Number	Issue Statement Title	Goal Number	Goal
R01	Adequacy of existing project recreation facilities, opportunities, and access to accommodate current use and future demand. (Issues addressed: 1, 2, 5-39, 41, 52, 53, 55-62, 64-85, 95, 96, 98, 104, 105, 110)		
	Adequacy of Meeting Demand	R01.01	Compliance of the Oroville facilities with the existing FERC license.
		R01.02	Compliance of Oroville facilities with FERC regulations as they relate to recreation development.
		R01.03	Compliance of the Oroville facilities with existing regulations, including Americans with Disabilities Act (ADA) guidelines.
		R01.04	Provide recreation development to support a range of recreation opportunities (examples mentioned in comments: private business, primitive camping, boat in/shoreline camping, whitewater boating and all other types of boating, houseboat moorage, access to upper forks of Lake Oroville past log booms, model airplane flying, swimming and beach use, fishing, gold dredging, hang-gliding, kite flying, hiking, trail biking, equestrian trail riding, trail systems, and equestrian facility use).
		R01.05	Provide and maintain sufficient access for recreation visitors to utilize project recreation areas and facilities.
		R01.06	Provide recreation that supports and promotes development of public event venues at the Project (for events such as bass tournaments, water ski and powerboat and whitewater competitions).
		R01.07	Provide visitor orientation information and facilities in the Project area, including educational opportunities such as boating safety, environmental interpretation, and area history.
		R01.08	Minimize the impact of recreational activities and facilities on the natural environment and cultural resources.
		R01.09	Provide recreational development for diverse user groups, including existing and potential users, and locals and non-locals.
		R01.10	Develop where applicable, the appropriate level of access and facilities to match any sub-planning areas of the Project. (Clustering concept).
		R01.11	Provide the maximum level of recreation development and use that provides high quality recreation opportunities on the Project, while protecting the environment and being consistent with Project operations.
		R01.12	Provide improved swimming locations/facilities in the Project area.

Code Number	Issue Statement Title	Goal Number	Goal
	Adequacy of Meeting Demand	R01.13	Provide recreation development to meet both local and regional recreation demand, recognizing that the solutions may lie outside of the FERC boundary.
		R01.14	The project recreation facilities and their operation and maintenance will provide a quality recreational experience and accommodate current and future recreation demands, opportunities, and access.
		R01.15	Ensure project recreation facilities meet public demand through the license period.
		R01.16	Protect existing recreational uses from potential adverse effects of future developments.
		R01.17	Provide recreational development to match present demand and allow for future expansion to meet future demand for diverse use groups, including existing and potential users, and locals and non-locals.
		R01.18	Develop where applicable, the appropriate level of access and facilities to match the diverse resources of the greater Oroville complex (different reservoirs, the river and wildlife area) and any sub-planning areas of the project.
		R01.19	Restore the low flow channel to pre-dam flows.
		R01.20	Provide recreation opportunities complimentary to the diversity of the Oroville community and surrounding sphere of influence.
		R01.21	Sharing the beauty of this area with the outside world.
		R01.22	Maximize heritage tourism opportunities based on the local Native American culture.
		R01.23	Maximize heritage tourism opportunities based on multi-cultural history of the Oroville area.
		R01.24	Meet existing and future demand for outdoor Project-related public recreation opportunities, consistent with other Project purposes.
		R01.25	Work collaboratively with local, State, and federal recreation management agencies to ensure that the Oroville Project recreation facilities complement other local recreation developments and use patterns.
R02	Adequacy of public safety at the Oroville Project recreation facilities. (Issues addressed: 49, 92, 93)		
	Recreation Safety Assessment	R02.01	Ensure public safety at all times. Ensure that safety facilities, staffing, and procedures are periodically reviewed to reflect changing uses of Project reservoirs and lands.
		R02.02	Provide appropriate and accurate information about the Project for safety and maintenance needs. (Maintenance as well as information)

Code Number	Issue Statement Title	Goal Number	Goal
	Recreation Safety Assessment	R02.03	Ensure compliance of existing safety regulations in both ADA and FERC guidelines for the Oroville facilities.
		R02.04	Ensure project lands, facilities and operational measures to provide for public safety and security.
		R02.05	Ensure public safety measures that might include patrols and adequate staffing.
		R02.06	Ensure that recreation facilities, their operation, and their maintenance provide a quality recreational experience and accommodate current and future recreation demands, opportunities, and access.
		R02.07	Appropriate pre-plans are distributed to local responding agencies.
		R02.08	Provide public safety in remote locations within the Project boundary.
		R02.09	Safety of the public and their properties will continue to be among the highest priorities when evaluating and managing new and existing recreation facilities and opportunities.
R03	Effects of facilities operations on recreation and socioeconomic opportunities. (Issues addressed: 44, 50, 51, 54, 63, 109)		
	Impacts on Recreation and Socioeconomic Opportunities	R03.01	Ensure that Project operations do not have an unacceptable level of impact on recreation use of the Project area (including fluctuations in reservoir pool levels, water temperature, floating debris, etc.).
		R03.02	Ensure that sustainable and enjoyable levels of hunting and fishing are available on Project lands.
		R03.03	Minimize adverse effects of Project operations on fishing and hunting on Project lands.
		R03.04	Minimize adverse impacts on recreation due to reservoir drawdowns.
		R03.05	Provide community-wide socioeconomic support through managing project lands and facilities in a manner that promotes high quality recreational use of the project area.
		R03.06	Ensure that the operation and maintenance of Project recreation facilities will provide quality recreation experiences and accommodate current and future recreation demands, opportunities, and access.
		R03.07	Extend boat launch ramps or build new offset ramps to allow for continued boating operations at low pool levels.
		R03.08	Avoid potential negative impacts on trails by facilities development.
		R03.09	Provide the optimum opportunity for recreation use and enhancement of Project facilities, consistent with Project operation to accomplish Project purposes.

Code Number	Issue Statement Title	Goal Number	Goal
	Impacts on Recreation and Socioeconomic Opportunities	R03.10	Make available water operations forecasts, to allow local, State, and federal recreation management agencies the opportunity to plan and operate efficiently.
		R03.11	Make water level forecasts available to the public. (include in information available)
		R03.12	Avoid adverse impacts on historical and cultural resources.
		R03.13	Preserve water supply, power generation and flood management capabilities and flexibility.
R04	Adequacy of operations and maintenance and clean-up activities associated with existing and new recreation areas. (Issues addressed: 87-91)		
	Maintenance and Clean-up Activities Assessment	R04.01	Ensure that debris collection occurs on a regularly scheduled basis.
		R04.02	Ensure that the operation and maintenance of Project recreation facilities will provide quality recreation experiences and accommodate current and future recreation demands, opportunities, and access.
		R04.03	Collaborate with local, State, and federal recreation management agencies to ensure that cleanliness, integrity, and safety of existing and future Project recreation facilities can be efficiently maintained.
		R04.04	Dispose of slash piles from trail maintenance.
		R04.05	Provide adequate primitive-level trails.
		R04.06	Ensure that operations and maintenance of project recreation programs and facilities are in accordance with best industry practices.
R05	Appropriate recreation funding, development, and management structure. (Issues addressed: 3, 4, 5-10, 12, 13-15, 28-39, 52,53, 55-62, 54-85, 96, 104, 105, 110-113, 115)		
	Funding, Development, and Management Structure Assessment	R05.01	Ensure than opportunities to coordinate across existing boundaries are met by encouraging agencies to integrate management and planning, especially with regard to post-licensing recreation measures.
		R05.02	Ensure that existing plans, policies, and regulations associated with the Project area are reviewed to identify opportunities for coordination and cooperation among affiliated management entities.
		R05.03	Management efforts will be in compliance with the federal Wild and Scenic Rivers Act, and the National Trails Act.
		R05.04	Provide reliable funding sources for recreation development, operation, and maintenance.
		R05.05	Encourage public-private partnerships in the development of companion recreation facilities.

Code Number	Issue Statement Title	Goal Number	Goal
	Funding, Development, and Management Structure Assessment	R05.06	Encourage all land management agencies with management responsibilities in the Project Boundary to coordinate planning and management efforts of project lands, where appropriate.
		R05.07	Ensure that the operation and maintenance of Project recreation facilities will provide quality recreation experiences and accommodate current and future recreation demands, opportunities, and access.
		R05.08	Ensure that managing agencies operate according to plans that appropriately consider public input.
		R05.09	Provide a management structure for the total Oroville complex and its various component parts that is public service oriented, seeks to optimize public use of the various project facilities, recognizes state laws and responsibilities while being responsive to local needs and input, is efficient and cost effective, encourages cooperation while providing for dispute resolution.
		R05.10	Amend Davis-Dolwig Act as appropriate.
		R05.11	Meet public needs for Project-related recreation maintenance, repair, rehabilitation, and management, consistent with: FERC requirements, the Davis-Dolwig Act, other applicable State and federal laws, and other Project purposes.
		R05.12	Collaborate with local, State, and federal recreation management agencies to ensure that the Oroville Project recreation facilities complement other local recreation developments and use patterns.
		R05.13	Collaborate with local, State, and federal recreation management agencies to efficiently provide a high standard of recreation opportunity at the Oroville Facilities.
		R05.14	Provide clear information to the public on agency responsibility for recreation operation and maintenance, including appropriate points of contact.
		R05.15	Ensure that operations and maintenance of project recreation programs and facilities are in accordance with best industry practices.
R06	Appropriate management of fisheries and wildlife resources to provide recreational opportunities. (Issues addressed: 42, 43, 45-48, 63, 84,107-109, 114) (coordinate with Environmental Work Group fisheries and terrestrial issues)		
	Recreational Opportunities and Management Assessment	R06.01	Ensure that management efforts are conducted and monitored for long-term maintenance and enhancement of fisheries and riparian habitat communities.
		R06.02	Ensure that management of fish and wildlife resources within the Project Boundary provides for related recreation opportunities.
		R06.03	Ensure that the operation and maintenance of Project recreation facilities will provide quality recreation experiences and accommodate current and future recreation demands, opportunities, and access.

Code Number	Issue Statement Title	Goal Number	Goal
	Recreational Opportunities and Management Assessment	R06.04	Collaborate with local, State, and federal fish and wildlife management agencies, to ensure protection and appropriate consumptive and non-consumptive recreational use of fish and wildlife resources associated with the Oroville Facilities and their operation, consistent with other project purposes.
		R06.05	Collaborate with the Department of Fish and Game (pursuant to the Davis-Dolwig Act and other pertinent agreements) to enhance fish- and wildlife-related recreation opportunities, consistent with: 1) obligations to protect special-status species, 2) operation of the Oroville Facilities for other Project purposes, and 3) DFG's management and stewardship mandates.
		R06.06	Ensure that existing recreation opportunities are preserved.
S01	Improve economic development through recreation-opportunities at the Oroville Facilities		
	Rec-Related Economic Development	S01.01	Provide community-wide support through managing project lands and facilities in a manner that promotes high quality recreational use of the project area.
		S01.02	Encourage recreation improvements, programs and public-private partnerships that have a high economic return to the local economy.
		S01.03	Collaborate with the Department of Parks and Recreation (pursuant to the Davis-Dolwig Act and other pertinent agreements), Department of Boating and Waterways, Wildlife Conservation Board, and other recreation management agencies, to enhance recreation opportunities provided by the Oroville Facilities and their operation, consistent with the operation of the Oroville Facilities for other Project purposes.
		S01.04	Collaborate with the Department of Fish and Game (pursuant to the Davis-Dolwig Act and other pertinent agreements) and other fish and wildlife management agencies, to enhance fish- and wildlife-related recreation opportunities, consistent with obligations to protect special-status species and the operation of the Oroville Facilities for other Project purposes.
		S01.05	Collaborate with stakeholders (including but not limited to local organized recreation groups, Chamber of Commerce, NGOs, regional recreation groups, etc.), to enhance recreation opportunities provided by the Oroville Facilities and their operation, consistent with the operation of the Oroville Facilities for other Project purposes.
		S01.06	Enhance local economy.
S02	Assess the feasibility of economic development through lower local utility rates and other available economic options related to project resources development		
	Evaluate Economic Options Related to Project Resource Development to Stimulate Economic Development	S02.01	Review managerial, legal, cost, and operational aspects of the Project to determine if the provision of lower utility rates on the local level is possible

Code Number	Issue Statement Title	Goal Number	Goal
	Evaluate Economic Options Related to Project Resource Development to Stimulate Economic Development	S02.02	Provide a reliable and economical water supply to all agencies served by the State Water Project.
		S02.03	Develop and maintain the goodwill and trust of local, regional, and State residents and agencies by being responsive to stakeholders' initiatives related to the Oroville Facilities, and carefully evaluate new proposals and opportunities for consistency with Project purposes and State and federal law.
		S02.04	Ensure favorable electric rates to foster economic development in Oroville area (Point of Origin of significant project generation).